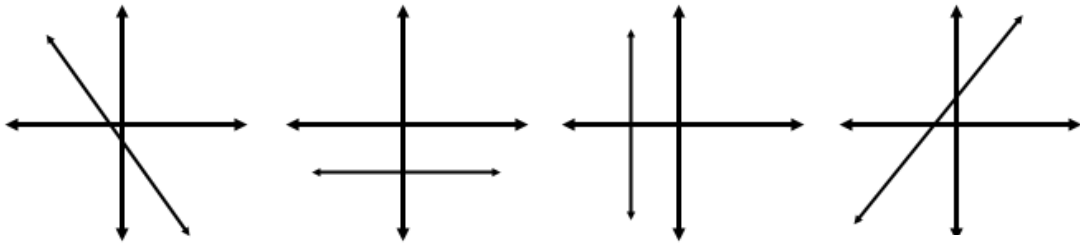


## Chapter 6 Practice Test

1. Match each graph with the proper slope. (a) positive slope, (b) negative slope, (c) zero slope, (d) undefined slope.



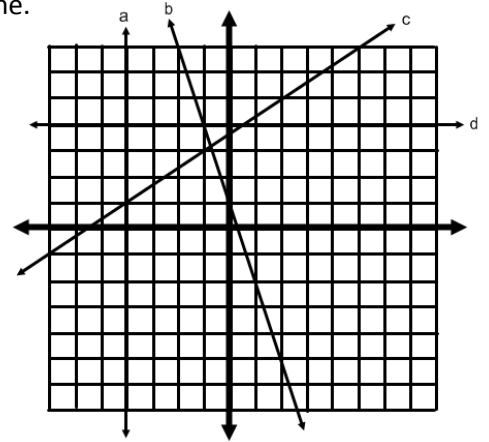
2. Find the slope of each line then write the equation for each line.

Line a:

Line b:

Line c:

Line d:



3. Calculate the slope of the line through each pair of points.

a.  $(-3, 4)$  and  $(6, -1)$

c.  $(5, 4)$  and  $(-3, 4)$

b.  $(-1, 5)$  and  $(-1, 2)$

d.  $(-2, -3)$  and  $(4, -1)$

4. Write the equation for the line from each of the following descriptions then graph the line.

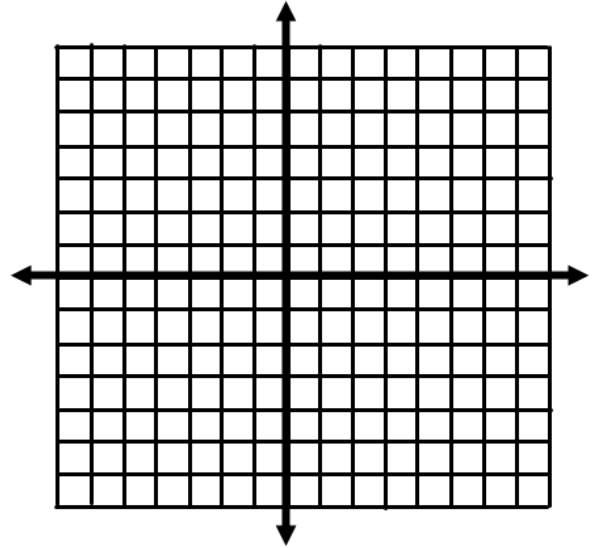
a. Through the points (3, 5) with a slope of  $-2/3$ .

b. Through the point (0, -3) with a slope of 2.

c. The y-intercept is 2 and the slope is -3.

d. A vertical line through the point (-3, 5).

e. e. A horizontal line through the point (-2, 0)



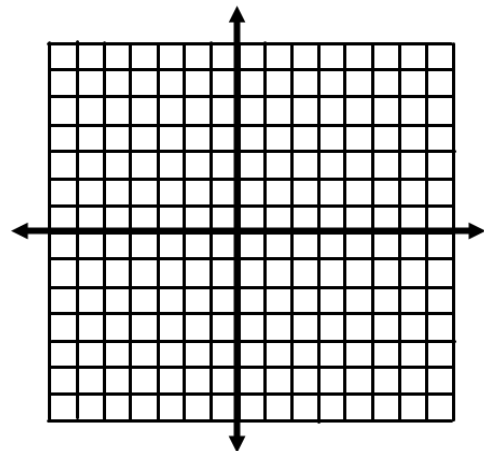
5. Do each chart at the right represent linear data.

X	Y
5	21
4	15
6	32
7	45

X	Y
2	9
3	13
-2	-7
5	21

6. Graph the standard form equation. Convert the equation to slope-intercept form to verify the slope and y-intercept.

$$4x - 2y = 16$$



7. A line with a slope of  $\frac{4}{5}$  passes through the point  $(4, -3)$ . Use the slope to find 5 other points on the line.

8. Write the equation of a line that passes through all of the following points:

$(0, -4), (5, -4), (-7, -4), (11, -4), (219, -4)$

9. At the delicatessen, Two Brother's All Natural Turkey breast cost \$5.99 per pound and Land Middlefield Swiss Cheese cost \$3.99 per pound. Janice bought  $x$  pounds of turkey and  $y$  pounds of Swiss cheese for \$25.90. Write an equation to represent this purchase.

10. After 8 months of saving, Danielle had managed to build her savings account to \$1200. She has been saving about \$120 each month. Write an equation to represent the amount of savings  $y$  she will have after  $x$  months. How much money did she have saved 8 months ago?

11. The graph at the right show how many cards Gretchen can produce in varying amounts of time. Fit a line to the data and write an equation that could be used to predict the number of cards she could produce in any amount of time.

